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ABSTRACT

This report provides selected results from the 2002 National Assessment of Educational Progress (NAEP) for Massachusetts' public-school students at grades 4 and 8. Since 1992, reading has been assessed in four different years at the state level (at grade 4 in 1992 and 1994, and at both grades 4 and 8 in 1998 and 2002). Massachusetts participated in all of these assessments at grades 4 and 8 and met the criteria for reporting public-school results for both grades. Key findings for grade 4 are: the average scale score for students in Massachusetts was 234, which was higher than that of 1992 (226) and was higher than that in 1998 (223); students' scale scores in Massachusetts were higher than those in 47 jurisdictions; and the percentage of students in Massachusetts who performed at or above the "Proficient" level was 47%, which was greater than that in 1992 (36%) and was greater than that in 1998 (35%). Key findings for grade 8 are: the average scale score for students in Massachusetts was 271, which was not found to differ significantly from that in 1998 (269); students' scale scores in Massachusetts were higher than those in 32 jurisdictions and the difference was not found to be significant for 14 jurisdictions; and the percentage of students in Massachusetts who performed at or above the "Proficient" level was 39%, which was not found to differ significantly from that in 1998 (38%). After an introduction, the report presents overall results, comparisons between states, reading performance by demographic characteristics, and it discusses moving toward a more inclusive NAEP, and where to find more information. (PM)

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The Nation's Report Card NAEP

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U.S. Department of Education
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The Nation's Report Card

Report for Massachusetts

Reading 2002

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The National Assessment of Educational Progress

CS 512 210

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June 2003

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State Reading 2002

The Nation's Report Card for

Massachusetts

KEY FINDINGS

For grade 4:

- The average scale score for students in Massachusetts was 234. This was higher than that of 1992 (226) and was higher than that in 1998 (223).
- Students' scale scores in Massachusetts were higher than those in 47 jurisdictions.
- The percentage of students in Massachusetts who performed at or above the *Proficient* level was 47 percent. This was greater than that in 1992 (36 percent) and was greater than that in 1998 (35 percent).

For grade 8:

- The average scale score for students in Massachusetts was 271. This was not found to differ significantly from that in 1998 (269).
- Students' scale scores in Massachusetts were higher than those in 32 jurisdictions and the difference was not found to be significant for 14 jurisdictions.
- The percentage of students in Massachusetts who performed at or above the *Proficient* level was 39 percent. This was not found to differ significantly from that in 1998 (38 percent).

This report provides selected results from the National Assessment of Educational Progress (NAEP) for Massachusetts' public-school students at grades 4 and 8. Since 1992, reading has been assessed in four different years at the state level (at grade 4 in 1992 and 1994, and at both grades 4 and 8 in 1998 and 2002). Massachusetts participated in all of these assessments at grades 4 and 8 and met the criteria for reporting public-school results for both grades. *The Nation's Report Card: Reading 2002* provides additional results from the assessment. NAEP is a project of the National Center for Education Statistics (NCES).

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The full set of results is available in an interactive database on the NAEP web site, http://www.nces.ed.gov/nationsreportcard. Released test questions, scoring rubrics, and question-level performance data are also available on the web site.

Introduction

What Was Assessed?

The content for each NAEP assessment is developed through a framework development process directed by the National Assessment Governing Board (NAGB). The development process implemented for reading required the active participation of teachers, curriculum specialists, subject-matter specialists, local school administrators, parents, and members of the general public. The objectives for each NAEP assessment are described in a "framework," a document that delineates the important content and process areas to be measured, as well as the types of questions to be included on the assessment.

The reading framework for the 1992 and 1994 reading assessments also guided the 1998, 2000 (national grade 4 only), and the 2002 assessments. This framework was developed under the auspices of the Council of Chief State School Officers (CCSSO) and directed by NAGB. In 2002, the framework was updated to provide more explicit detail regarding the assessment design. In doing so, some of the terms used to describe elements of the reading assessment were altered slightly. It should be noted, however, that this updating does not represent a change in the content or design of the NAEP reading assessment. The framework is available on the NAGB web site (http://www.nagb.org/pubs/read_fw_03.pdf).

The framework is founded on a body of research from the field of education that defines reading as an interactive and constructive process involving the reader, the text, and the context of the reading experience. Reading involves the development of an understanding of text, thinking about the text in different ways, and using a variety of text types for different purposes. For example, readers may read stories to enjoy and appreciate the human experience, study science texts to form new hypotheses about knowledge, or use maps to gain information about specific places.

Recognizing that readers vary their approach to reading according to the demands of any particular text, the framework specifies the assessment of reading in three contexts: reading for literary experience, reading to gain information, and reading to perform a task. Each context for reading is associated with a range of different types of texts that are included in the NAEP reading assessment. All three contexts for reading are assessed at grades 8 and 12, but reading to perform a task is not assessed at grade 4.

As readers attempt to develop understanding of text, they focus on general topics or themes, interpret and integrate ideas, make connections to background knowledge and experiences, and examine the content and structure of the text. The framework accounts for these different approaches to understanding text by specifying four "aspects of reading" that represent the types of comprehension questions asked of students. All four aspects of reading are assessed at all three grades within each context of reading. The reading framework specifies the percentage distribution of questions by grade level for each of the contexts and aspects of reading.

The assessment contains reading materials that were drawn from sources commonly available to students both in and out of the school environment. These authentic materials were considered to be representative of the types of reading experiences typically encountered by students. Each student in the state assessment was asked to complete two 25-minute sections, each consisting of a reading passage and associated comprehension questions. A combination of multiple-choice and constructed-response questions was used to assess students' understanding of the passages. Released NAEP reading passages and questions, along with student performance data by state, are available on the NAEP web site (http://nces.ed.gov/nationsreportcard/itmrls/).

Who Was Assessed?

For the NAEP state assessments, a target for each jurisdiction is a sample of 100 schools and 3,000 students, except in small or sparsely populated jurisdictions. The sample of schools and students is chosen in a two-stage sampling process. First, the sample of schools is selected by probability sampling methods. Then, within the participating schools, random samples of students are chosen (only public schools are reported in the state reports). These methods are described in *The Nation's Report Card: Reading 2002*. The national and state results in 2002 derive from common samples. The national results include the results from the states, weighted appropriately to represent the U.S. student population. The overall participation rates for schools and students must meet guidelines established by NCES and NAGB in order for assessment results to be reported publicly. Data are not reported to the public for a state or jurisdiction that participates but does not meet minimum participation rate guidelines. For more information about participation guidelines, see the procedural appendix in *The Nation's Report Card: Reading 2002*.

How Is Student Performance Reported?

The results of student performance on the NAEP assessments are reported for various groups of students (e.g., fourth-grade female students or students who took the assessment in different years). No individual student scores are reported by NAEP. The differences in performance between groups of students that are discussed in this report are based on statistical tests that consider both the magnitude of the differences between averages or percentages and the standard error of those statistics. It should be noted that the averages and percentages in this report have a standard error—a range of a few points plus or minus the score—which accounts for potential score fluctuation due to sampling error and measurement error. Statistical tests that factor in these standard errors are used to determine whether the differences between average scores are significant. Estimates based on small subgroups are likely to have relatively large standard errors. Consequently, some seemingly large differences may not be statistically significant. The reader is cautioned to rely on the reported differences in the text and tables, which are statistically significant, rather than on the apparent magnitude of any difference. Statistically significant differences between 2002 and prior assessments are marked with a notation (*) in the tables. Differences among groups within a year are discussed in the text, but are not marked within the tables. Student reading performance is described in two ways: 1) average scale scores and 2) achievement levels.

Scale Scores: Student performance is reported as an average score based on the NAEP reading scale that ranges from 0 to 500 and is linked to the corresponding scales in 1992, 1994, and 1998. The average scale score reflects the overall reading performance of a particular group of students. The overall composite scale was developed by weighting each of the three reading subscales (one for each of the three above-mentioned purposes for reading) based on its relative importance in the NAEP reading framework. This composite scale is the metric used to present the average scale scores and selected percentiles used in NAEP reports. More information on NAEP scales is available in the procedural appendix of *The Nation's Report Card: Reading 2002*.

Achievement Levels: Student reading performance is also reported in terms of three achievement levels—*Basic, Proficient,* and *Advanced*. Results based on achievement levels are expressed in terms of the percentage of students who attained each level. The three achievement levels are defined as follows:

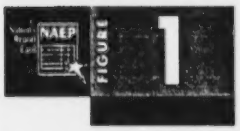
- *Basic:* This level denotes partial mastery of prerequisite knowledge and skills that are fundamental for proficient work at each grade.
- *Proficient:* This level represents solid academic performance for each grade assessed. Students reaching this level have demonstrated competency over challenging subject matter, including subject-matter knowledge, application of such knowledge to real-world situations, and analytical skills appropriate to the subject matter.
- *Advanced:* This level signifies superior performance.

The achievement levels are performance standards adopted by NAGB as part of its statutory responsibilities. The levels represent collective judgments of what students should know and be able to do for each grade tested. They are based on recommendations made by broadly representative panels of classroom teachers, education specialists, and members of the general public. As provided by law, the National Center for Education Statistics (NCES), upon review of congressionally mandated evaluations of NAEP, has determined that the achievement levels are to be used on a trial basis until it is determined that the achievement levels are "reasonable, valid, and informative to the public" (No Child Left Behind Act of 2001, Pub. L. No. 107–110, 115 Stat. 1425 (2001)). However, both NCES and NAGB believe these performance standards are useful for understanding trends in student achievement. They have been widely used by national and state officials as a common yardstick for academic performance. The reading achievement level descriptions are summarized for grades 4 and 8 in figure 1.

The results displayed in *The Nation's Report Card: Reading 2002* are based on representative samples that include students with disabilities (SD) and limited English proficient students (LEP). In assessments prior to 1998, no testing accommodations or adaptations were made available to the special-needs students in these samples. However, subsequent research carried out by NAEP revealed that the results for such accommodated students could be combined with the results for nonaccommodated students without compromising the validity of the NAEP scales in trend comparisons (see page 33). Therefore, the special-needs students who typically received accommodations in their classroom testing also received them in the NAEP assessment, where appropriate.

In the tables that follow, the results for the assessment years where accommodations were not permitted (1992, 1994, and 1998) are reported in the same tables as the results where accommodations were permitted (1998 and 2002). In 1998, NAEP used a split sample of schools—one sample in which accommodations were permitted for special-needs students who normally received them and another sample in which accommodations were not permitted. Therefore, there are two different sets of results dispayed for 1998. The results labeled **Accommodations not permitted** are the same as previously reported data. The results labeled **Accommodations permitted** for 1998 are new.

In the text that follows, statistical comparisons are made between the results across years, regardless of accommodation conditions, because NAEP's statistical studies showed that these comparisons could be made and the results remain valid. Note that the comparisons made in the text between 2002 and 1998 pertain to the sample in which accommodations were permitted. Note that in previous state reports comparative data for the region (Northeast, South, Central, and West) in which the state is located were provided in the tables. Data for the state's region are not presented in this year's reports because uneven school response rates in two regions made the comparative data less reliable than in the past. In some cases poor response was obtained from the samples of schools from states that were not participating in the NAEP state assessment program.



The Nation's Report Card 2002 State Assessment

Descriptions of NAEP reading achievement levels, grades 4 and 8

Grade 4

Basic level (208)	Fourth-grade students performing at the *Basic* level should demonstrate an understanding of the overall meaning of what they read. When reading text appropriate for fourth graders, they should be able to make relatively obvious connections between the text and their own experiences, and extend the ideas in the text by making simple inferences.

For example, when reading **literary** text, *Basic*-level fourth graders should be able to tell what the story is generally about—providing details to support their understanding—and be able to connect aspects of the stories to their own experiences.

When reading **informational** text, they should be able to tell what the selection is generally about or identify the purpose for reading it, provide details to support their understanding, and connect ideas from the text to their background knowledge and experiences.

Proficient level (238)	Fourth-grade students performing at the *Proficient* level should be able to demonstrate an overall understanding of the text, providing inferential as well as literal information. When reading text appropriate to fourth grade, they should be able to extend the ideas in the text by making inferences, drawing conclusions, and making connections to their own experiences. The connections between the text and what the student infers should be clear.

For example, when reading **literary** text, *Proficient*-level fourth graders should be able to summarize the story, draw conclusions about the characters or plot, and recognize relationships such as cause and effect.

When reading **informational** text, *Proficient*-level students should be able to summarize the information and identify the author's intent or purpose. They should be able to draw reasonable conclusions from the text, recognize relationships such as cause and effect or similarities and differences, and identify the meaning of the selection's key concepts.

Advanced level (268)	Fourth-grade students performing at the *Advanced* level should be able to generalize about topics in the reading selection and demonstrate an awareness of how authors compose and use **literary** devices. When reading text appropriate to fourth grade, they should be able to judge texts critically and, in general, give thorough answers that indicate careful thought.

For example, when reading **literary** text, *Advanced*-level students should be able to make generalizations about the point of the story and extend its meaning by integrating personal experiences and other readings with ideas suggested by the text. They should be able to identify **literary** devices such as figurative language.

When reading **informational** text, *Advanced*-level fourth graders should be able to explain the author's intent by using supporting material from the text. They should be able to make critical judgments of the form and content of the text and explain their judgments clearly.

See footnote at end of figure.

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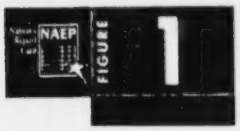

The Nation's Report Card 2002 State Assessment

Descriptions of NAEP reading achievement levels, grades 4 and 8—Continued

Grade 8

Basic level (243)	Eighth-grade students performing at the *Basic* level should demonstrate a literal understanding of what they read and be able to make some interpretations. When reading text appropriate to eighth grade, they should be able to identify specific aspects of the text that reflect the overall meaning, extend the ideas in the text by making simple inferences, recognize and relate interpretations and connections among ideas in the text to personal experience, and draw conclusions based on the text.

For example, when reading **literary** text, *Basic*-level eighth graders should be able to identify themes and make inferences and logical predictions about aspects such as plot and characters.

When reading **informational** text, they should be able to identify the main idea and the author's purpose. They should make inferences and draw conclusions supported by information in the text. They should recognize the relationships among the facts, ideas, events, and concepts of the text (e.g., cause and effect, order).

When reading **practical** text, they should be able to identify the main purpose and make predictions about the relatively obvious outcomes of procedures in the text.

Proficient level (281)	Eighth-grade students performing at the *Proficient* level should be able to show an overall understanding of the text, including inferential as well as literal information. When reading text appropriate to eighth grade, they should be able to extend the ideas in the text by making clear inferences from it, by drawing conclusions, and by making connections to their own experiences—including other reading experiences. *Proficient* eighth graders should be able to identify some of the devices authors use in composing text.

For example, when reading **literary** text, students at the *Proficient* level should be able to give details and examples to support themes that they identify. They should be able to use implied as well as explicit information in articulating themes; to interpret the actions, behaviors, and motives of characters; and to identify the use of **literary** devices such as personification and foreshadowing.

When reading **informational** text, they should be able to summarize the text using explicit and implied information and support conclusions with inferences based on the text.

When reading **practical** text, *Proficient*-level students should be able to describe its purpose and support their views with examples and details. They should be able to judge the importance of certain steps and procedures.

Advanced level (323)	Eighth-grade students performing at the *Advanced* level should be able to describe the more abstract themes and ideas of the overall text. When reading text appropriate to eighth grade, they should be able to analyze both meaning and form and support their analyses explicitly with examples from the text, and they should be able to extend text information by relating it to their experiences and to world events. At this level, student responses should be thorough, thoughtful, and extensive.

For example, when reading **literary** text, *Advanced*-level eighth graders should be able to make complex, abstract summaries and theme statements. They should be able to describe the interactions of various **literary** elements (i.e., setting, plot, characters, and theme) and explain how the use of **literary** devices affects both the meaning of the text and their response to the author's style. They should be able to critically analyze and evaluate the composition of the text.

When reading **informational** text, they should be able to analyze the author's purpose and point of view. They should be able to use cultural and historical background information to develop perspectives on the text and be able to apply text information to broad issues and world situations.

When reading **practical** text, *Advanced*-level students should be able to synthesize information that will guide their performance, apply text information to new situations, and critique the usefulness of the form and content.

SOURCE: National Assessment Governing Board. (2002). *Reading Framework for the 2003 National Assessment of Educational Progress.* Washington, DC: Author.

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NAEP 2002 Reading Overall Scale Score and Achievement Level Results for Public-School Students

Overall Scale Score Results

Table 1A shows the overall performance of public-school students in Massachusetts and the nation for the 1992 to 2002 assessments at grade 4. The first column of results presents the average score on the NAEP reading scale. The subsequent columns show the average score at selected percentiles. For each percentile, that percentage of scores falls below the score at that percentile.

Table 1B shows results for grade 8 for the 1998 and 2002 assessments.

Grade 4 Scale Score Results

- In 2002, the average scale score for students in Massachusetts was 234. This was higher than that of students across the nation (217).
- In Massachusetts, the average scale score of students in 2002 was higher than that of 1992 (226).
- In Massachusetts, the average scale score of students in 2002 was higher than that of 1994 (223).
- In Massachusetts, the average scale score of students in 2002 was higher than that in 1998 (223). Similarly, the average scale score for students across the nation in 2002 was higher than that in 1998 (213).

TABLE 1A

The Nation's Report Card 2002 State Assessment

Average reading scale scores and selected percentiles, grade 4 public schools: 1992–2002

		Average scale score	Scale score distribution				
			10th percentile	25th percentile	50th percentile	75th percentile	90th percentile
Accommodations not permitted							
1992	Massachusetts	226* (0.9)	188 (1.7)	207* (1.6)	228* (1.8)	247* (1.0)	263* (2.6)
	Nation	215 (1.0)	168 (2.1)	192 (0.9)	217 (1.7)	240 (1.5)	259 (2.4)
1994	Massachusetts	223* (1.3)	177* (2.3)	202* (3.3)	226* (1.8)	248* (1.6)	265* (2.1)
	Nation	212* (1.1)	156* (2.2)	187* (1.5)	217* (1.1)	241 (1.1)	261 (1.4)
1998	Massachusetts	225* (1.4)	184* (3.7)	208* (2.0)	227* (1.5)	248* (1.6)	265* (1.3)
	Nation	215 (0.8)	165 (2.1)	192 (1.0)	218 (0.8)	242 (1.0)	261 (1.3)
Accommodations permitted							
1998	Massachusetts	223* (1.4)	178* (4.1)	203* (2.4)	226* (1.2)	247* (0.9)	264* (2.4)
	Nation	213* (1.2)	161* (2.9)	189* (1.7)	215* (1.5)	241 (1.0)	260 (0.9)
2002	Massachusetts	234 (1.1)	193 (1.8)	214 (1.3)	236 (1.4)	256 (1.4)	273 (1.4)
	Nation	217 (0.5)	169 (0.8)	194 (0.6)	219 (0.4)	242 (0.5)	261 (0.5)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, and 2002 Reading Assessments.

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Grade 8 Scale Score Results

- In 2002, the average scale score for students in Massachusetts was 271. This was higher than that of students across the nation (263).
- In Massachusetts, the average scale score of students in 2002 was not found to differ significantly from that in 1998 (269). However, the average scale score for students across the nation in 2002 was higher than that in 1998 (261).

TABLE 1B

The Nation's Report Card 2002 State Assessment

Average reading scale scores and selected percentiles, grade 8 public schools: 1998 and 2002

		Average scale score	Scale score distribution				
			10th percentile	25th percentile	50th percentile	75th percentile	90th percentile
Accommodations not permitted							
1998	Massachusetts	269 (1.6)	228 (2.2)	249 (2.1)	271 (1.8)	291 (1.9)	308 (1.8)
	Nation	261 (0.8)	215* (1.5)	240 (1.3)	264 (1.3)	286 (0.8)	304 (1.3)
Accommodations permitted							
1998	Massachusetts	269 (1.4)	225 (3.1)	248 (1.8)	271 (1.4)	292 (2.0)	308 (2.7)
	Nation	261* (0.8)	214* (2.0)	238* (1.0)	264 (1.0)	285 (1.2)	303 (1.0)
2002	Massachusetts	271 (1.3)	229 (3.4)	250 (1.6)	273 (1.2)	292 (1.9)	309 (1.2)
	Nation	263 (0.5)	219 (0.9)	242 (0.5)	265 (0.6)	286 (0.5)	303 (0.3)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Overall Achievement Level Results

Table 1C presents the percentages of students at grade 4 who performed below *Basic*, at or above *Basic*, at or above *Proficient*, and at the *Advanced* level. Because the percentages are cumulative from *Basic* to *Proficient* to *Advanced*, they sum to more than 100 percent. Only the percentage of students at or above *Basic* (which includes the students at *Proficient* and *Advanced*) plus the students below *Basic* will always sum to 100 percent (except for rounding).

Table 1D shows the achievement level results for grade 8.

Grade 4 Achievement Level Results

- In 2002, the percentage of Massachusetts' students who performed at or above the *Proficient* level was 47 percent. This was greater than the percentage of the nation's public-school students who performed at the same level (30 percent).
- In Massachusetts, the percentage of students who performed at or above the *Proficient* level in 2002 was greater than that in 1992 (36 percent).
- In Massachusetts, the percentage of students who performed at or above the *Proficient* level in 2002 was greater than that in 1994 (36 percent).
- In Massachusetts, the percentage of students who performed at or above the *Proficient* level in 2002 was greater than that in 1998 (35 percent).

TABLE 1C

The Nation's Report Card 2002 State Assessment

Percentage of students at or above each reading achievement level, grade 4 public schools: 1992–2002

		Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Accommodations not permitted					
1992	Massachusetts	26* (1.3)	74* (1.3)	36* (1.5)	7* (0.8)
	Nation	40 (1.1)	60 (1.1)	27* (1.3)	6 (0.6)
1994	Massachusetts	31* (1.5)	69* (1.5)	36* (1.7)	8* (1.0)
	Nation	41* (1.1)	59* (1.1)	28 (1.2)	7 (0.7)
1998	Massachusetts	27* (1.8)	73* (1.8)	37* (2.0)	8* (0.8)
	Nation	39 (1.0)	61 (1.0)	29 (0.9)	6 (0.5)
Accommodations permitted					
1998	Massachusetts	30* (1.9)	70* (1.9)	35* (1.9)	8* (0.7)
	Nation	42* (1.3)	58* (1.3)	28 (1.0)	6 (0.5)
2002	Massachusetts	20 (1.1)	80 (1.1)	47 (1.6)	13 (1.0)
	Nation	38 (0.5)	62 (0.5)	30 (0.5)	6 (0.2)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 4: *Basic*, 208–237; *Proficient*, 238–267; and *Advanced*, 268 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, and 2002 Reading Assessments.

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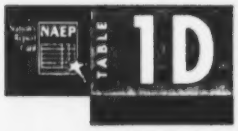
Grade 8 Achievement Level Results

- In 2002, the percentage of Massachusetts' students who performed at or above the *Proficient* level was 39 percent. This was greater than the percentage of the nation's public-school students who performed at or above *Proficient* (31 percent).
- In Massachusetts, the percentage of students who performed at or above the *Proficient* level in 2002 was not found to differ significantly from that in 1998 (38 percent).



The Nation's Report Card 2002 State Assessment

Percentage of students at or above each reading achievement level, grade 8 public schools: 1998 and 2002

		Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Accommodations not permitted					
1998	Massachusetts	20 (1.5)	80 (1.5)	36 (2.2)	3 (0.7)
	Nation	28* (0.9)	72* (0.9)	31 (0.9)	2 (0.4)
Accommodations permitted					
1998	Massachusetts	21 (1.3)	79 (1.3)	38 (1.7)	3 (0.8)
	Nation	29* (0.8)	71* (0.8)	30 (1.1)	2 (0.3)
2002	Massachusetts	19 (1.5)	81 (1.5)	39 (1.9)	3 (0.6)
	Nation	26 (0.5)	74 (0.5)	31 (0.6)	2 (0.2)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 8: *Basic*, 243–280; *Proficient*, 281–322; and *Advanced*, 323 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Comparisons Between Massachusetts and Other Participating States and Jurisdictions

In 2002, 51 states and other jurisdictions participated in the reading assessment. The maps in figures 2A and 2B show the participating states and jurisdictions and indicate their membership in four U.S. geographic regions. Note that the U.S. territories and the domestic and overseas Department of Defense Education Activity schools (DoDEA/DDESS and DoDEA/DoDDS) were not placed into any of these regions.

Comparisons by Average Scale Scores

Figures 2A and 2B compare Massachusetts' overall 2002 grades 4 and 8 reading scale scores with those of all other participating states and jurisdictions. The different shadings are determined by whether Massachusetts' average scale score was found to be significantly different from that of each of the other participants in the 2002 NAEP reading assessment. Note that states that did not participate in 2002, or that did not meet reporting guidelines, are also represented in the maps.

Comparisons by Achievement Levels

Figures 3A and 3B permit comparisons of all participants in the NAEP 2002 reading assessment in terms of percentages of students performing at or above the *Proficient* level. The participating states and jurisdictions are grouped into categories reflecting student performance compared to that in Massachusetts. The jurisdictions are grouped by whether the percentage of their students with scores at or above the *Proficient* level (including *Advanced*) was found to be higher than, not significantly different from, or lower than the percentage in Massachusetts. Note that the arrangement of the states and the other jurisdictions within each category is alphabetical; statistical comparisons among jurisdictions in each of the three categories are not included in this report.

FIGURE 2A

The Nation's Report Card 2002 State Assessment

Massachusetts' average reading scale score compared with scores for other participating jurisdictions, grade 4 public schools: 2002

- Target State.
- Jurisdiction has higher average scale score than target state.
- Jurisdiction was not found to be significantly different from target state in average scale score.
- Jurisdiction has lower average scale score than target state.
- Jurisdiction did not meet minimum participation rate guidelines.
- Jurisdiction did not participate in the NAEP 2002 Reading State Assessment.

DDESS: Department of Defense Domestic Dependent Elementary and Secondary Schools.
DoDDS: Department of Defense Dependents Schools (Overseas).
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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FIGURE 2B

The Nation's Report Card 2002 State Assessment

Massachusetts' average reading scale score compared with scores for other participating jurisdictions, grade 8 public schools: 2002

- Target State.
- Jurisdiction has higher average scale score than target state.
- Jurisdiction was not found to be significantly different from target state in average scale score.
- Jurisdiction has lower average scale score than target state.
- Jurisdiction did not meet minimum participation rate guidelines.
- Jurisdiction did not participate in the NAEP 2002 Reading State Assessment.

DDESS: Department of Defense Domestic Dependent Elementary and Secondary Schools.
DoDDS: Department of Defense Dependents Schools (Overseas).
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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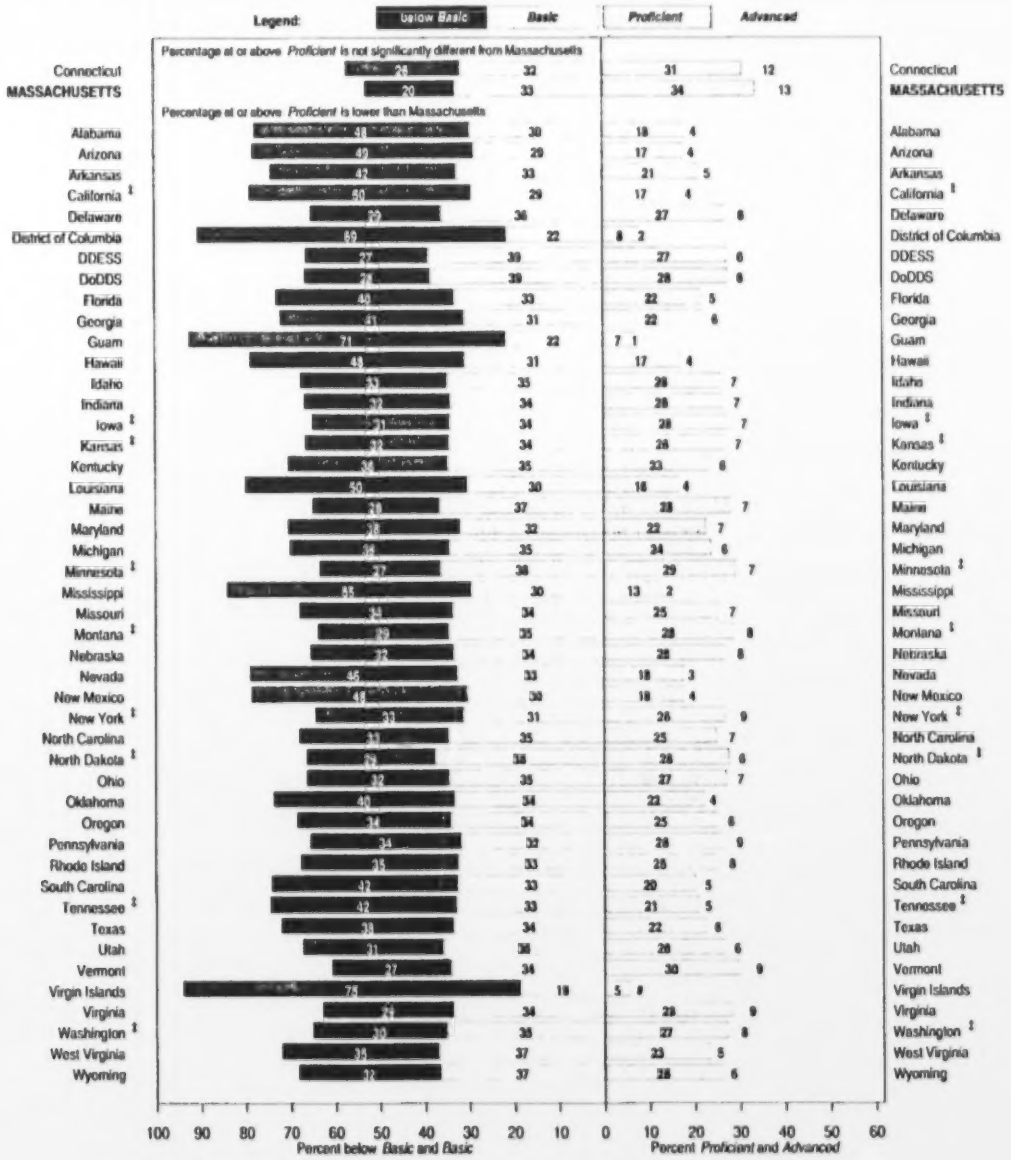
FIGURE 3A

The Nation's Report Card 2002 State Assessment

Percentage of students within each reading achievement level range, and Massachusetts' percentage at or above Proficient compared with other participating jurisdictions, grade 4 public schools: By state, 2002


Legend:
Below Basic
Basic
Proficient
Advanced
Percentage at or above Proficient is not significantly different from Massachusetts
Percentage at or above Proficient is lower than Massachusetts
Connecticut 28 32 31 12 Connecticut
MASSACHUSETTS 20 33 34 13 MASSACHUSETTS
Alabama 48 30 18 4 Alabama
Arizona 49 29 17 4 Arizona
Arkansas 42 33 21 5 Arkansas
California ‡ 50 29 17 4 California ‡
Delaware 37 36 27 8 Delaware
District of Columbia 69 22 8 2 District of Columbia
DDESS 27 39 27 6 DDESS
DoDDS 28 39 28 6 DoDDS
Florida 40 33 22 5 Florida
Georgia 41 31 22 6 Georgia
Guam 71 22 7 1 Guam
Hawaii 48 31 17 4 Hawaii
Idaho 33 35 28 7 Idaho
Indiana 32 34 28 7 Indiana
Iowa ‡ 31 34 28 7 Iowa ‡
Kansas ‡ 32 34 26 7 Kansas ‡
Kentucky 34 35 23 6 Kentucky
Louisiana 50 30 16 4 Louisiana
Maine 29 37 28 7 Maine
Maryland 38 32 22 7 Maryland
Michigan 36 35 24 6 Michigan
Minnesota ‡ 27 36 29 7 Minnesota ‡
Mississippi 55 30 13 2 Mississippi
Missouri 33 34 25 7 Missouri
Montana ‡ 29 35 28 8 Montana ‡
Nebraska 32 34 28 8 Nebraska
Nevada 45 33 18 3 Nevada
New Mexico 48 30 18 4 New Mexico
New York ‡ 33 31 26 9 New York ‡
North Carolina 33 35 25 7 North Carolina
North Dakota ‡ 29 36 28 8 North Dakota ‡
Ohio 32 35 27 7 Ohio
Oklahoma 40 34 22 4 Oklahoma
Oregon 34 34 25 6 Oregon
Pennsylvania 34 32 28 9 Pennsylvania
Rhode Island 35 33 25 8 Rhode Island
South Carolina 42 33 20 5 South Carolina
Tennessee ‡ 42 33 21 5 Tennessee ‡
Texas 33 34 22 6 Texas
Utah 31 36 28 6 Utah
Vermont 27 34 30 9 Vermont
Virgin Islands 75 18 5 # Virgin Islands
Virginia 29 34 28 9 Virginia
Washington ‡ 30 35 27 8 Washington ‡
West Virginia 34 37 23 5 West Virginia
Wyoming 32 37 28 6 Wyoming
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60
Percent below Basic and Basic
Percent Proficient and Advanced

Percentage rounds to zero.
‡ Indicates that the jurisdiction did not meet one or more of the guidelines for school participation in 2002.

DDESS: Department of Defense Domestic Dependent Elementary and Secondary Schools.
DoDDS: Department of Defense Dependents Schools (Overseas).
NOTE: The bars above contain percentages of students in each NAEP reading achievement range. Each population of students is aligned at the point where the Proficient category begins, so that they may be compared at Proficient and above.
Percentages within each reading achievement level range may not add to 100 or to the exact percentages at or above Achievement levels, due to rounding.
SOURCE: U.S. Department of Education, Institute of Education Sciences National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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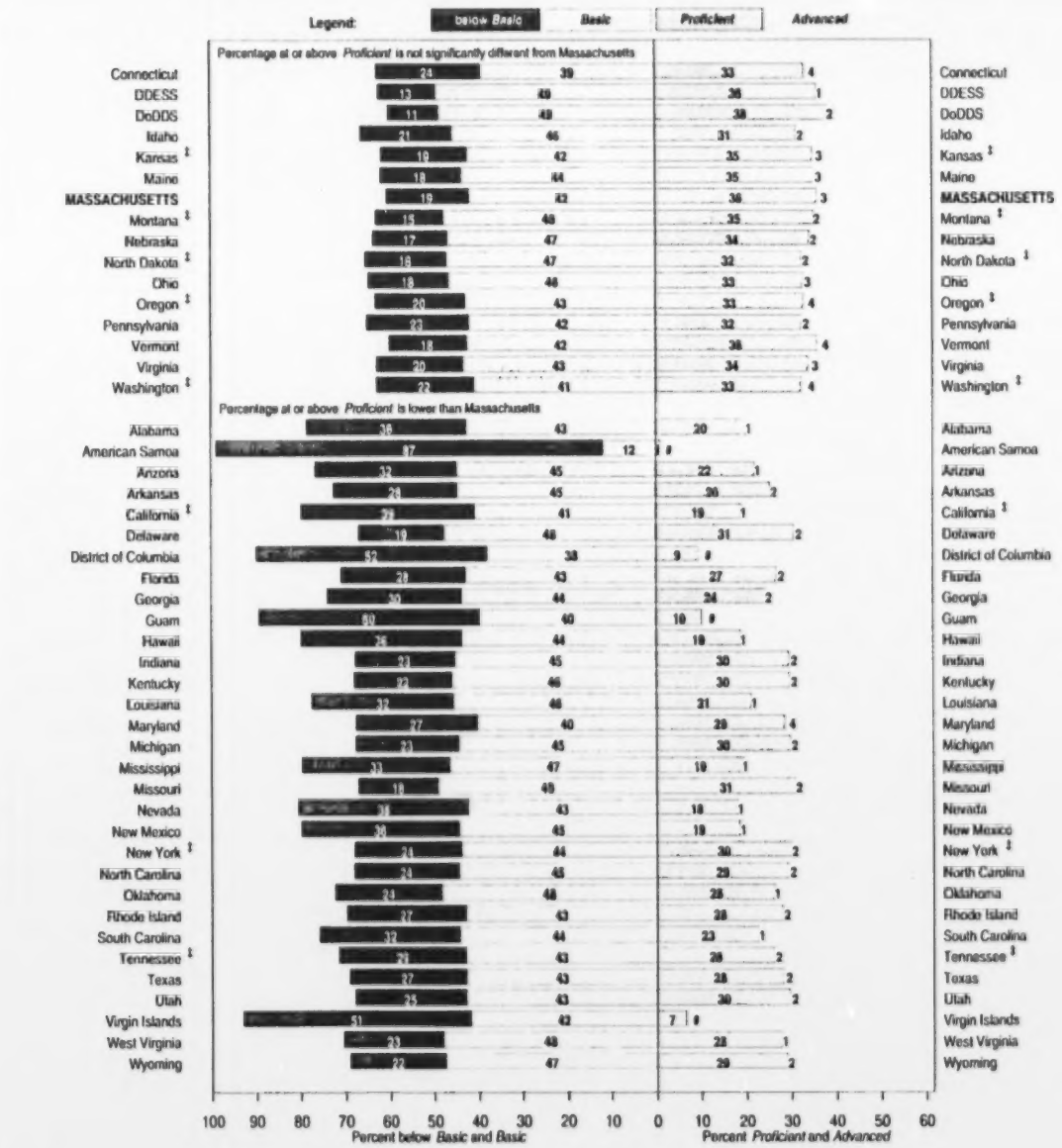
FIGURE 3B

The Nation's Report Card 2002 State Assessment

Percentage of students within each reading achievement level range, and Massachusetts' percentage at or above Proficient compared with other participating jurisdictions, grade 8 public schools: By state, 2002


Legend:
below Basic
Basic
Proficient
Advanced
Percentage at or above Proficient is not significantly different from Massachusetts
Connecticut 24 39 33 4 Connecticut
DDESS 13 49 36 1 DDESS
DoDDS 11 49 38 2 DoDDS
Idaho 21 46 31 2 Idaho
Kansas ‡ 19 42 35 3 Kansas ‡
Maine 18 44 35 3 Maine
MASSACHUSETTS 19 43 36 3 MASSACHUSETTS
Montana ‡ 15 48 35 2 Montana ‡
Nebraska 17 47 34 2 Nebraska
North Dakota ‡ 18 47 32 2 North Dakota ‡
Ohio 18 46 33 3 Ohio
Oregon ‡ 20 43 33 4 Oregon ‡
Pennsylvania 23 42 32 2 Pennsylvania
Vermont 18 42 36 4 Vermont
Virginia 20 43 34 3 Virginia
Washington ‡ 22 41 33 4 Washington ‡
Percentage at or above Proficient is lower than Massachusetts
Alabama 36 43 20 1 Alabama
American Samoa 87 12 # # American Samoa
Arizona 32 45 22 1 Arizona
Arkansas 28 45 26 2 Arkansas
California ‡ 39 41 19 1 California ‡
Delaware 19 48 31 2 Delaware
District of Columbia 52 38 9 # District of Columbia
Florida 28 43 27 2 Florida
Georgia 30 44 24 2 Georgia
Guam 50 40 10 # Guam
Hawaii 36 44 19 1 Hawaii
Indiana 27 45 26 2 Indiana
Kentucky 27 46 26 2 Kentucky
Louisiana 32 46 21 1 Louisiana
Maryland 27 40 29 4 Maryland
Michigan 28 45 26 2 Michigan
Mississippi 33 47 19 1 Mississippi
Missouri 18 49 31 2 Missouri
Nevada 36 43 19 1 Nevada
New Mexico 36 45 19 1 New Mexico
New York ‡ 24 44 30 2 New York ‡
North Carolina 28 45 25 2 North Carolina
Oklahoma 23 48 28 1 Oklahoma
Rhode Island 27 43 28 2 Rhode Island
South Carolina 32 44 23 1 South Carolina
Tennessee ‡ 29 43 26 2 Tennessee ‡
Texas 27 43 28 2 Texas
Utah 25 43 30 2 Utah
Virgin Islands 51 42 7 # Virgin Islands
West Virginia 23 48 28 1 West Virginia
Wyoming 27 47 25 2 Wyoming
100 90 80 70 60 50 40 30 20 10
Percent below Basic and Basic
0 10 20 30 40 50 60
Percent Proficient and Advanced

Percentage rounds to zero.
‡ Indicates that the jurisdiction did not meet one or more of the guidelines for school participation in 2002.

DDESS: Department of Defense Domestic Dependent Elementary and Secondary Schools.
DoDDS: Department of Defense Dependents Schools (Overseas).
NOTE: The bars above contain percentages of students in each NAEP reading achievement range. Each population of students is aligned at the point where the Proficient category begins, so that they may be compared at Proficient and above.
Percentages within each reading achievement level range may not add to 100 or to the exact percentages at or above Achievement levels, due to rounding.
SOURCE: U.S. Department of Education, Institute of Education Sciences National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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Reading Performance by Demographic Characteristics

This section of the report presents trend results by major demographic variables for fourth- and eighth-grade students in Massachusetts and the nation. Results are presented for the 1992 to 2002 assessments where data for the demographic variable are available. In these tables, scale score results and achievement level performance are presented in the same table. Student performance data for the following demographic variables are reported:

- gender;
- race/ethnicity;
- eligibility for free/reduced-price school lunch; and
- type of community in which school is located (2002 only).

Each of the variables is reported in tables that present the percentage of students belonging to each subgroup (in the first column) and the average scale score (in the second column). The columns to the right show the percentage of students at or above each achievement level. The reader is cautioned against making causal inferences about the performance of these groups relative to these variables. Many factors other than those discussed here may affect student performance. NAEP collects information on many additional variables, including school and home factors related to achievement. All of this information is available in an interactive database on the NAEP web site and can be used to create additional reports of interest to a particular state.

Gender

Tables 2A and 2B show scale scores and achievement level data for public-school students at grades 4 and 8 in Massachusetts and across the nation by gender. The indicators of significant differences that appear in the tables come from a comparison of performance by males or females from the indicated year compared with 2002. Differences in performance between males and females are indicated in the text below, but are not indicated by notations of significance in the tables.

Grade 4 Scale Score Results by Gender

- In Massachusetts, male students' average scale score was 231 in 2002. This was lower than that of female students (237).
- In 2002, male students in Massachusetts had an average scale score in reading (231) that was higher than that of male students across the nation (214). Female students in Massachusetts had an average score (237) that was higher than that of female students nationwide (220).
- In Massachusetts, the average scale scores of both males and females were higher in 2002 than in 1992.
- In Massachusetts, the average scale scores of both males and females were higher in 2002 than in 1994.
- In Massachusetts, the average scale scores of both males and females were higher in 2002 than in 1998.

Grade 4 Achievement Level Results by Gender

- In 2002, 43 percent of males and 52 percent of females performed at or above the *Proficient* level in Massachusetts. The difference between these percentages was found to be statistically significant.
- The percentage of males in Massachusetts' public schools who were at or above the *Proficient* level in 2002 (43 percent) was greater than that of males in the nation (26 percent).
- The percentage of females in Massachusetts at or above the *Proficient* level in 2002 (52 percent) was greater than that of the nation's females (33 percent).
- In Massachusetts, the percentages of both males and females performing at or above the *Proficient* level were greater in 2002 than in 1992.
- In Massachusetts, the percentages of both males and females performing at or above the *Proficient* level were greater in 2002 than in 1994.
- In Massachusetts, the percentages of both males and females performing at or above the *Proficient* level were greater in 2002 than in 1998.

TABLE 2A

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by gender, grade 4 public schools: 1992–2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Male						
Accommodations not permitted						
1992 Massachusetts	50 (0.9)	225* (1.2)	27* (1.4)	73* (1.4)	34* (2.3)	5* (0.7)
Nation	51 (0.7)	211 (1.3)	44 (1.7)	56 (1.7)	24 (1.5)	5 (0.7)
1994 Massachusetts	50 (0.9)	221* (1.5)	33* (1.8)	67* (1.8)	33* (2.1)	7* (1.4)
Nation	51 (0.7)	207* (1.3)	47* (1.5)	53* (1.5)	24 (1.3)	6 (0.8)
1998 Massachusetts	48 (1.0)	221* (1.6)	30* (2.2)	70* (2.2)	31* (2.2)	5* (1.1)
Nation	50 (0.7)	212 (1.2)	43 (1.5)	57 (1.5)	27 (1.3)	6 (0.7)
Accommodations permitted						
1998 Massachusetts	48 (1.1)	219* (1.8)	33* (2.0)	67* (2.0)	31* (2.2)	5* (0.8)
Nation	50 (0.7)	210* (1.4)	45* (1.3)	55* (1.3)	25 (1.2)	5 (0.7)
2002 Massachusetts	51 (0.9)	231 (1.2)	23 (1.3)	77 (1.3)	43 (1.5)	11 (1.3)
Nation	51 (0.3)	214 (0.5)	41 (0.6)	59 (0.6)	26 (0.5)	5 (0.2)
Female						
Accommodations not permitted						
1992 Massachusetts	50 (0.9)	227* (1.1)	25* (1.8)	75* (1.8)	38* (1.6)	8* (1.2)
Nation	49 (0.7)	219 (1.1)	35 (1.5)	65 (1.5)	30 (1.5)	7 (0.9)
1994 Massachusetts	50 (0.9)	226* (1.5)	28* (1.8)	72* (1.8)	39* (2.1)	9* (1.5)
Nation	49 (0.7)	218 (1.2)	36 (1.3)	64 (1.3)	32 (1.6)	8 (0.9)
1998 Massachusetts	52 (1.0)	229* (1.7)	24* (1.9)	76* (1.9)	42* (2.4)	10* (1.1)
Nation	50 (0.7)	218 (0.8)	36 (1.1)	64 (1.1)	31 (1.1)	7 (0.6)
Accommodations permitted						
1998 Massachusetts	52 (1.1)	226* (1.6)	27* (2.5)	73* (2.5)	39* (2.2)	10* (1.3)
Nation	50 (0.7)	215* (1.4)	40* (1.6)	60* (1.6)	30 (1.4)	7 (0.7)
2002 Massachusetts	49 (0.9)	237 (1.4)	17 (1.5)	83 (1.5)	52 (2.2)	16 (1.4)
Nation	49 (0.3)	220 (0.5)	35 (0.6)	65 (0.6)	33 (0.6)	8 (0.3)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 4: *Basic*, 208–237; *Proficient*, 238–267; and *Advanced*, 268 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, and 2002 Reading Assessments.

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Grade 8 Scale Score Results by Gender

- In Massachusetts, male students' average scale score was 266 in 2002. This was lower than that of female students (275).
- In 2002, male students in Massachusetts had an average scale score in reading (266) that was higher than that of male students across the nation (258). Female students in Massachusetts had an average score (275) that was higher than that of female students nationwide (267).
- In Massachusetts, the average scale scores of both males and females were not found to differ significantly in 2002 from those in 1998.

Grade 8 Achievement Level Results by Gender

- In 2002, 33 percent of males and 45 percent of females performed at or above the *Proficient* level in Massachusetts. The difference between these percentages was found to be statistically significant.
- The percentage of males in Massachusetts' public schools who were at or above the *Proficient* level in 2002 (33 percent) was greater than that of males in the nation (26 percent).
- The percentage of females in Massachusetts at or above the *Proficient* level in 2002 (45 percent) was greater than that of the nation's females (36 percent).
- In Massachusetts, the percentages of both males and females performing at or above the *Proficient* level were not found to differ significantly in 2002 from those in 1998.

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by gender, grade 8 public schools: 1998 and 2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Male						
Accommodations not permitted						
1998 Massachusetts	51 (1.3)	263 (1.9)	24 (2.2)	76 (2.2)	29 (2.4)	2 (0.6)
Nation	51 (0.5)	255* (1.0)	35* (1.2)	65* (1.2)	24 (1.0)	1 (0.3)
Accommodations permitted						
1998 Massachusetts	51 (1.2)	264 (1.7)	25 (1.9)	75 (1.9)	30 (2.2)	2 (0.8)
Nation	51 (0.6)	253* (1.0)	36* (1.3)	64* (1.3)	23* (1.1)	1 (0.2)
2002 Massachusetts	48 (1.0)	266 (1.6)	22 (1.8)	78 (1.8)	33 (2.3)	2 (0.6)
Nation	50 (0.3)	258 (0.5)	30 (0.6)	70 (0.6)	26 (0.6)	2 (0.2)
Female						
Accommodations not permitted						
1998 Massachusetts	49 (1.3)	274 (1.7)	15 (1.5)	85 (1.5)	44 (2.5)	4 (1.1)
Nation	49 (0.5)	268 (1.0)	21 (0.9)	79 (0.9)	37 (1.3)	3 (0.6)
Accommodations permitted						
1998 Massachusetts	49 (1.2)	274 (1.6)	17 (1.6)	83 (1.6)	45 (2.6)	4 (1.1)
Nation	49 (0.6)	268 (0.9)	21 (0.9)	79 (0.9)	37 (1.4)	3 (0.6)
2002 Massachusetts	52 (1.0)	275 (1.6)	15 (1.7)	85 (1.7)	45 (2.3)	5 (0.9)
Nation	50 (0.3)	267 (0.5)	21 (0.6)	79 (0.6)	36 (0.6)	3 (0.3)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 8: *Basic*, 243–280; *Proficient*, 281–322; and *Advanced*, 323 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Race/Ethnicity

As part of the student roster developed for the NAEP assessment, the school reported data used to identify the racial/ethnic subgroup that best described the student. The six mutually exclusive categories were White, Black, Hispanic, Asian/Pacific Islander, American Indian/Alaska Native, and Other. This information was the primary contributor to the classifications appearing below. For details of the derivation of this variable, see *The Nation's Report Card: Reading 2002*.

Tables 3A and 3B show scale scores and achievement data by racial and ethnic group membership for public-school students at grades 4 and 8. Only the race/ethnicity categories with sufficient membership to meet reporting requirements in Massachusetts are reported below.

Grade 4 Scale Score Results by Race/Ethnicity

- In 2002, White students in Massachusetts had an average scale score that was higher than those of Black and Hispanic students, but was not found to be significantly different from that of Asian/Pacific Islander students.
- The average scale scores of White, Black, Hispanic, and Asian/Pacific Islander students in Massachusetts were higher in 2002 than in 1992.
- The average scale scores of White, Black, Hispanic, and Asian/Pacific Islander students in Massachusetts were higher in 2002 than in 1994.
- The average scale scores of White, Black, Hispanic, and Asian/Pacific Islander students in Massachusetts were higher in 2002 than in 1998.

Grade 4 Achievement Level Results by Race/Ethnicity

- In Massachusetts in 2002, the percentage of White students performing at or above the *Proficient* level was greater than those of Black and Hispanic students, but was not found to differ significantly from that of Asian/Pacific Islander students.
- The percentage of White students in Massachusetts performing at or above the *Proficient* level was greater in 2002 than in 1992. The differences in the respective percentages of Black, Hispanic, and Asian/Pacific Islander students in Massachusetts performing at or above the *Proficient* level between 2002 and 1992 were not found to be significant.
- The respective percentages of White, Hispanic, and Asian/Pacific Islander students in Massachusetts performing at or above the *Proficient* level were greater in 2002 than in 1994. The difference in the percentage of Black students in Massachusetts performing at or above the *Proficient* level between 2002 and 1994 was not found to be significant.
- The respective percentages of White and Asian/Pacific Islander students in Massachusetts performing at or above the *Proficient* level were greater in 2002 than in 1998. The differences in the respective percentages of Black and Hispanic students in Massachusetts performing at or above the *Proficient* level between 2002 and 1998 were not found to be significant.

TABLE 3A

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by race/ethnicity, grade 4 public schools: 1992–2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
White						
Accommodations not permitted						
1992 Massachusetts	84* (1.2)	230* (0.9)	21* (1.1)	79* (1.1)	40* (1.6)	7* (0.9)
Nation	72* (0.9)	223* (1.4)	31* (1.5)	69* (1.5)	33* (1.9)	8 (0.9)
1994 Massachusetts	81 (1.7)	230* (1.3)	23* (1.5)	77* (1.5)	41* (1.9)	10* (1.2)
Nation	71* (0.8)	222* (1.3)	31* (1.3)	69* (1.3)	35* (1.5)	9 (0.9)
1998 Massachusetts	82 (1.6)	230* (1.3)	20* (1.5)	80* (1.5)	42* (2.3)	9* (1.1)
Nation	69* (0.8)	224* (1.0)	30* (1.3)	70* (1.3)	36 (1.2)	8 (0.7)
Accommodations permitted						
1998 Massachusetts	82 (1.5)	228* (1.4)	24* (1.9)	76* (1.9)	40* (2.2)	9* (0.9)
Nation	64 (1.9)	223* (1.1)	31* (1.3)	69* (1.3)	36* (1.2)	9 (0.7)
2002 Massachusetts	78 (1.5)	239 (1.0)	14 (0.8)	86 (0.8)	54 (1.7)	16 (1.2)
Nation	60 (0.7)	227 (0.3)	26 (0.4)	74 (0.4)	39 (0.5)	9 (0.3)
Black						
Accommodations not permitted						
1992 Massachusetts	8 (0.7)	204* (2.6)	53 (3.7)	47 (3.7)	10 (2.6)	1 (0.7)
Nation	18 (0.5)	191* (1.7)	69* (2.1)	31* (2.1)	8* (1.4)	1 (0.4)
1994 Massachusetts	8 (1.2)	196* (2.8)	64* (3.5)	36* (3.5)	12 (2.4)	1 (****)
Nation	18 (0.8)	184* (1.8)	72* (2.7)	28* (2.7)	8* (0.9)	1 (0.3)
1998 Massachusetts	6 (0.9)	203* (3.2)	55 (4.6)	45 (4.6)	10 (4.1)	0 (****)
Nation	17 (0.5)	192* (1.7)	66* (1.8)	34* (1.8)	9 (0.9)	1 (0.5)
Accommodations permitted						
1998 Massachusetts	6 (0.8)	202* (2.8)	56 (3.9)	44 (3.9)	12 (2.6)	0 (****)
Nation	16 (1.3)	192* (2.1)	66* (1.9)	34* (1.9)	10 (1.0)	1 (0.5)
2002 Massachusetts	9 (0.9)	212 (2.8)	43 (5.0)	57 (5.0)	19 (4.2)	2 (1.2)
Nation	18 (0.4)	198 (0.6)	61 (0.7)	39 (0.7)	12 (0.5)	1 (0.2)
Hispanic						
Accommodations not permitted						
1992 Massachusetts	4* (0.5)	196* (2.6)	66* (4.7)	34* (4.7)	9 (3.6)	0 (****)
Nation	7* (0.8)	194 (2.7)	63 (2.7)	37 (2.7)	10* (1.7)	1 (****)
1994 Massachusetts	6 (0.7)	182* (3.6)	75* (5.1)	25* (5.1)	6* (2.5)	1 (****)
Nation	7* (0.6)	186* (3.6)	68* (3.7)	32* (3.7)	11 (2.1)	2 (0.8)
1998 Massachusetts	7 (1.2)	195* (3.1)	67* (4.4)	33* (4.4)	10 (3.4)	1 (0.6)
Nation	10* (0.7)	194 (2.1)	62 (2.5)	38 (2.5)	12 (1.6)	2 (0.6)
Accommodations permitted						
1998 Massachusetts	7 (1.1)	194* (2.8)	66* (4.5)	34* (4.5)	11 (3.1)	1 (0.8)
Nation	14 (1.4)	192 (3.2)	64 (3.3)	36 (3.3)	12 (1.7)	2 (0.5)
2002 Massachusetts	8 (0.9)	207 (3.0)	49 (4.4)	51 (4.4)	15 (3.0)	2 (0.9)
Nation	17 (0.5)	199 (1.4)	57 (1.4)	43 (1.4)	14 (0.8)	2 (0.3)
Asian/Pacific Islander						
Accommodations not permitted						
1992 Massachusetts	4 (0.7)	217* (5.9)	40 (8.4)	60 (8.4)	28 (8.0)	6 (****)
Nation	2* (0.4)	215* (3.2)	41 (5.4)	59 (5.4)	23* (4.9)	4 (2.5)
1994 Massachusetts	4 (1.1)	208* (6.8)!	47* (8.0)!	53* (8.0)!	22* (5.6)!	4* (2.0)!
Nation	3 (0.5)	217 (4.2)	36 (4.8)	64 (4.8)	34 (4.6)	9 (4.4)
1998 Massachusetts	4 (0.7)	212* (5.4)	46* (8.0)	54* (8.0)	23* (5.8)	7 (4.9)
Nation	2* (0.4)	218 (4.5)	39 (5.7)	61 (5.7)	31 (5.7)	10 (3.6)
Accommodations permitted						
1998 Massachusetts	3 (0.6)	211* (5.7)	50* (8.5)	50* (8.5)	19* (5.3)	8 (3.4)
Nation	4 (0.9)	211 (6.0)!	45 (6.6)!	55 (6.6)!	27 (4.7)!	10 (2.9)!
2002 Massachusetts	4 (0.6)	233 (4.1)	21 (4.6)	79 (4.6)	46 (6.5)	16 (5.0)
Nation	4 (0.2)	223 (1.7)	31 (2.2)	69 (2.2)	36 (2.1)	9 (0.8)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 4: *Basic*, 208–237; *Proficient*, 238–267; and *Advanced*, 268 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.
! The nature of the sample does not allow accurate determination of the variability of the statistic.
(****) Standard error estimates cannot be accurately determined.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, and 2002 Reading Assessments.

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Grade 8 Scale Score Results by Race/Ethnicity

- In 2002, White students in Massachusetts had an average scale score that was higher than those of Black and Hispanic students, but was not found to differ significantly from that of Asian/Pacific Islander students.
- The differences in the average scale scores of White, Black, Hispanic, and Asian/Pacific Islander students in Massachusetts between 2002 and 1998 were not found to be significant.

Grade 8 Achievement Level Results by Race/Ethnicity

- In Massachusetts in 2002, the percentage of White students performing at or above the *Proficient* level was greater than those of Black and Hispanic students, but was not found to differ significantly from that of Asian/Pacific Islander students.
- The differences in the respective percentages of White, Black, Hispanic, and Asian/Pacific Islander students in Massachusetts performing at or above the *Proficient* level between 2002 and 1998 were not found to be significant.

TABLE 3B

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by race/ethnicity, grade 8 public schools: 1998 and 2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
White						
Accommodations not permitted						
1998 Massachusetts	79 (1.5)	274 (1.5)	14 (1.1)	86 (1.1)	41 (2.4)	3 (0.8)
Nation	68* (0.6)	269 (0.9)	20* (0.9)	80* (0.9)	38 (1.2)	3 (0.5)
Accommodations permitted						
1998 Massachusetts	79 (1.4)	274 (1.5)	15 (1.3)	85 (1.3)	43 (1.9)	4 (0.9)
Nation	68* (0.7)	268 (1.0)	21* (1.0)	79* (1.0)	37 (1.3)	3 (0.4)
2002 Massachusetts	73 (2.6)	278 (1.1)	11 (1.1)	89 (1.1)	47 (1.8)	4 (0.7)
Nation	64 (0.6)	271 (0.5)	17 (0.5)	83 (0.5)	39 (0.7)	3 (0.3)
Black						
Accommodations not permitted						
1998 Massachusetts	7 (1.2)	248 (3.0)	45 (6.1)	55 (6.1)	13 (3.8)	2 (1.1)
Nation	15 (0.4)	241 (1.7)	51 (2.5)	49 (2.5)	11 (1.3)	0 (****)
Accommodations permitted						
1998 Massachusetts	7 (0.9)	246 (3.7)	46 (5.9)	54 (5.9)	12 (3.8)	2 (****)
Nation	16 (0.4)	242 (1.2)	50 (1.8)	50 (1.8)	11 (1.6)	0 (****)
2002 Massachusetts	9 (1.4)	246 (2.8)	44 (4.6)	56 (4.6)	12 (2.8)	1 (****)
Nation	15 (0.4)	244 (0.8)	46 (1.0)	54 (1.0)	13 (0.7)	0 (0.2)
Hispanic						
Accommodations not permitted						
1998 Massachusetts	9 (1.2)	244 (3.0)	49 (5.1)	51 (5.1)	12 (3.3)	1 (****)
Nation	12* (0.5)	243 (2.6)	47 (3.3)	53 (3.3)	14 (1.5)	0 (0.2)
Accommodations permitted						
1998 Massachusetts	9 (1.1)	242 (4.0)	54 (6.5)	46 (6.5)	12 (3.0)	0 (****)
Nation	12* (0.5)	241 (1.7)	48 (2.5)	52 (2.5)	13 (1.0)	0 (0.3)
2002 Massachusetts	11 (1.9)	246 (2.6)	46 (3.0)	54 (3.0)	16 (2.9)	1 (****)
Nation	15 (0.4)	245 (0.8)	44 (1.3)	56 (1.3)	14 (0.8)	0 (0.2)
Asian/Pacific Islander						
Accommodations not permitted						
1998 Massachusetts	5 (0.9)	261 (7.2)	28 (7.4)	72 (7.4)	35 (7.5)	3 (****)
Nation	3 (0.5)	265 (5.2)	25 (7.7)	75 (7.7)	32 (6.0)	3 (1.1)
Accommodations permitted						
1998 Massachusetts	4 (0.6)	269 (4.3)	21 (5.6)	79 (5.6)	40 (6.0)	3 (2.3)
Nation	4 (0.6)	261 (7.6)	27 (9.6)	73 (9.6)	30 (6.1)	3 (1.5)
2002 Massachusetts	5 (0.9)	270 (4.2)	19 (4.2)	81 (4.2)	37 (7.3)	3 (****)
Nation	4 (0.2)	265 (1.7)	25 (2.2)	75 (2.2)	34 (2.0)	3 (0.8)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 8: *Basic*, 243–280; *Proficient*, 281–322; and *Advanced*, 323 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.
(****) Standard error estimates cannot be accurately determined.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Free/Reduced-Price School Lunch Eligibility

NAEP collects data on eligibility for the federal program providing free/reduced-price school lunches. The free/reduced-price school lunch component of the National School Lunch Program (NSLP), offered through the U.S. Department of Agriculture (USDA), is designed to ensure that children near or below the poverty line receive nourishing meals. This program is available to public schools, nonprofit private schools, and residential child-care institutions. Eligibility is determined through the USDA's Income Eligibility Guidelines, and results for this category of students are included as an indicator of poverty.

Tables 4A and 4B present results for fourth- and eighth-graders. NAEP first collected information on student participation in this program in 1996; consequently, no data are available for 1992 and 1994.

Grade 4 Scale Score Results by Free/Reduced-Price School Lunch Eligibility

- Students in Massachusetts eligible for free/reduced-price school lunch had an average reading scale score of 215. This was lower than that of students in Massachusetts not eligible for this program (241).
- In Massachusetts, students eligible for free/reduced-price school lunch had an average reading scale score in 2002 (215) that was higher than that of eligible students in 1998 (203).
- Students in Massachusetts eligible for free/reduced-price school lunch had an average scale score (215) that was higher than that of similar students in the nation (202).

Grade 4 Achievement Level Results by Free/Reduced-Price School Lunch Eligibility

- In Massachusetts, 23 percent of students who were eligible for free/reduced-price school lunch and 56 percent of those who were not eligible performed at or above the *Proficient* level. These percentages were found to be significantly different from one another.
- In Massachusetts, the percentage of students who were eligible for free/reduced-price school lunch who performed at or above the *Proficient* level (23 percent) was higher than the corresponding percentage for 1998 (15 percent).
- For students in Massachusetts who were eligible for free/reduced-price school lunch, the percentage at or above the *Proficient* level (23 percent) was higher than the corresponding percentage for their counterparts around the nation (16 percent).

TABLE 4A

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by eligibility for free/reduced-price school lunch, grade 4 public schools: 1998 and 2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Eligible						
Accommodations not permitted						
1998 Massachusetts	27 (1.8)	205* (2.1)	52* (3.2)	48* (3.2)	15 (2.4)	2 (0.9)
Nation	38* (1.3)	198* (1.2)	58* (1.5)	42* (1.5)	13 (1.2)	1 (0.4)
Accommodations permitted						
1998 Massachusetts	26 (1.7)	203* (1.9)	54* (2.8)	46* (2.8)	15* (2.3)	1 (0.5)
Nation	41 (1.8)	195* (1.7)	61* (1.9)	39* (1.9)	12* (1.0)	1* (0.3)
2002 Massachusetts	27 (2.0)	215 (2.3)	40 (3.2)	60 (3.2)	23 (2.8)	3 (1.2)
Nation	43 (0.9)	202 (0.7)	54 (0.8)	46 (0.8)	16 (0.5)	2 (0.2)
Not eligible						
Accommodations not permitted						
1998 Massachusetts	68 (2.3)	233* (1.3)	17* (1.4)	83* (1.4)	45* (2.2)	10* (1.0)
Nation	54 (1.9)	226* (1.0)	28* (1.3)	72* (1.3)	30 (1.3)	10 (0.9)
Accommodations permitted						
1998 Massachusetts	69 (2.4)	230* (1.5)	21* (2.1)	79* (2.1)	43* (2.3)	10* (1.0)
Nation	51 (1.9)	226* (0.9)	28* (1.0)	72* (1.0)	30 (1.2)	10 (0.8)
2002 Massachusetts	67 (2.7)	241 (1.0)	12 (0.9)	88 (0.9)	56 (1.8)	17 (1.4)
Nation	50 (0.9)	229 (0.4)	24 (0.5)	76 (0.5)	41 (0.7)	10 (0.3)
Information not available						
Accommodations not permitted						
1998 Massachusetts	5 (2.0)	226 (5.9)!	29 (8.1)!	71 (8.1)!	37 (8.7)!	8 (3.5)!
Nation	7 (1.9)	225 (4.0)!	30 (4.0)!	70 (4.0)!	38 (6.3)!	10 (2.0)!
Accommodations permitted						
1998 Massachusetts	5 (2.1)	224 (5.1)!	28 (5.4)!	72 (5.4)!	35* (6.0)!	9 (2.5)!
Nation	7 (1.7)	219 (3.8)!	35 (4.2)!	65 (4.2)!	33 (5.5)!	9 (1.6)!
2002 Massachusetts	6 (2.2)	238 (5.4)!	16 (5.7)!	84 (5.7)!	54 (6.5)!	17 (5.4)!
Nation	7 (0.7)	217 (2.4)	38 (2.8)	62 (2.8)	30 (2.3)	7 (1.0)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 4: *Basic*, 208–237; *Proficient*, 238–267; and *Advanced*, 268 and above.

Percentages below and at or above *Basic* may not add to 100, due to rounding.

The standard errors of the statistics in the table appear in parentheses.

! The nature of the sample does not allow accurate determination of the variability of the statistic.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Grade 8 Scale Score Results by Free/Reduced-Price School Lunch Eligibility

- Students in Massachusetts eligible for free/reduced-price school lunch had an average reading scale score of 253. This was lower than that of students in Massachusetts not eligible for this program (278).
- In Massachusetts, students eligible for free/reduced-price school lunch had an average scale score in 2002 (253) that was not found to differ significantly from that of eligible students in 1998 (247).
- Students in Massachusetts eligible for free/reduced-price school lunch had an average reading score (253) that was not found to differ significantly from that of eligible students across the nation (249).

Grade 8 Achievement Level Results by Free/Reduced-Price School Lunch Eligibility

- In Massachusetts, 18 percent of students who were eligible for free/reduced-price school lunch and 49 percent of those who were not eligible performed at or above the *Proficient* level. These percentages were found to be significantly different from one another.
- In Massachusetts, the percentage of students who were eligible for free/reduced-price school lunch who performed at or above the *Proficient* level (18 percent) was not found to be significantly different from the corresponding percentage for 1998 (14 percent).
- For students who were eligible for free/reduced-price school lunch in Massachusetts, the percentage at or above the *Proficient* level (18 percent) was not found to be significantly different from the corresponding percentage of eligible students nationwide (17 percent).

TABLE 4B

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by eligibility for free/reduced-price school lunch, grade 8 public schools: 1998 and 2002

	Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Eligible						
Accommodations not permitted						
1998 Massachusetts	23 (1.7)	248 (2.1)	42 (3.0)	58 (3.0)	14 (2.0)	0 (****)
Nation	30* (0.8)	246* (1.3)	44* (1.6)	56* (1.6)	15 (1.0)	0 (****)
Accommodations permitted						
1998 Massachusetts	23 (1.6)	247 (2.0)	43 (3.6)	57 (3.6)	14 (2.1)	0 (****)
Nation	30* (0.9)	245* (1.0)	45* (1.3)	55* (1.3)	14 (1.0)	0 (0.1)
2002 Massachusetts	28 (2.5)	253 (2.3)	36 (3.3)	64 (3.3)	18 (2.3)	0 (****)
Nation	34 (0.7)	249 (0.5)	40 (0.7)	60 (0.7)	17 (0.5)	1 (0.1)
Not eligible						
Accommodations not permitted						
1998 Massachusetts	73 (2.0)	276 (1.4)	12 (1.3)	88 (1.3)	43 (2.3)	4 (0.8)
Nation	58 (1.8)	269* (1.0)	20* (1.0)	80* (1.0)	38 (1.4)	3 (0.6)
Accommodations permitted						
1998 Massachusetts	72 (1.9)	276 (1.4)	13 (1.1)	87 (1.1)	45 (1.8)	4 (0.9)
Nation	58 (1.8)	268* (1.0)	21* (1.0)	79* (1.0)	37 (1.5)	3 (0.5)
2002 Massachusetts	69 (2.7)	278 (1.3)	11 (1.1)	89 (1.1)	49 (2.1)	5 (0.8)
Nation	57 (1.1)	271 (0.5)	17 (0.5)	83 (0.5)	40 (0.6)	3 (0.3)
Information not available						
Accommodations not permitted						
1998 Massachusetts	4 (1.7)	269 (14.0)!	24 (8.7)!	76 (8.7)!	37 (18.3)!	7 (****)!
Nation	12 (1.9)	265 (2.7)	25 (3.1)	75 (3.1)	35 (2.9)	4 (0.9)
Accommodations permitted						
1998 Massachusetts	5 (2.0)	265 (13.0)!	27 (9.0)!	73 (9.0)!	31 (15.5)!	6 (****)!
Nation	11 (1.8)	264 (2.3)	27 (2.1)	73 (2.1)	34 (2.8)	3 (1.2)
2002 Massachusetts	3 (1.3)	259 (6.0)!	27 (7.4)!	73 (7.4)!	24 (6.2)!	1 (****)!
Nation	10 (1.0)	264 (2.5)	25 (2.0)	75 (2.0)	32 (2.7)	4 (1.9)

* If this notation appears, it signifies that the value is significantly different from the value for 2002. Comparisons between the accommodations-not-permitted and accommodations-permitted results should be interpreted with caution.

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 8: *Basic*, 243–280; *Proficient*, 281–322; and *Advanced*, 323 and above.

Percentages below and at or above *Basic* may not add to 100, due to rounding.

The standard errors of the statistics in the table appear in parentheses.

! The nature of the sample does not allow accurate determination of the variability of the statistic.

(****) Standard error estimates cannot be accurately determined.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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Type of Community in which School is Located

Schools that participated in the assessment were classified into three mutually exclusive types of community in which the school is located: central city, urban fringe/large town, and rural/small town. These categories indicate the geographic locations of schools and are not intended to indicate or imply social or economic meanings for location types. General information (including definitions) about these categories is available in the technical appendix of *The Nation's Report Card: Reading 2002*. Data are reported for the year 2002 only. This is due to new methods used by NCES to identify the type of location assigned to each school in the Common Core of Data (CCD), which rendered direct comparisons impossible between 2002 data and earlier years in the report. The new methods were put into place by NCES in order to improve the quality of the assignments, and they take into account more information about the exact physical location of the school. The variable was revised in NAEP beginning with the 2000 assessments.

Tables 5A and 5B present results for grades 4 and 8 according to type of community in Massachusetts and the nation for 2002.

Grade 4 Scale Score and Achievement Level Results by Type of Community

- In 2002 in Massachusetts, the average scale score of students attending schools in central cities was lower than those of students in urban fringes/large towns and rural areas/small towns.
- The average scale scores of students attending schools in all three types of locations were higher in Massachusetts than in similar types of communities nationwide.
- In 2002, the percentage of students attending schools in central cities in Massachusetts who performed at or above the *Proficient* level was smaller than the corresponding percentages for students in urban fringes/large towns and rural areas/small towns.
- The respective percentages of students attending schools in urban fringes/large towns and rural areas/small towns who performed at or above the *Proficient* level were greater in Massachusetts than in similar types of communities nationwide. No significant difference was detected in the percentage of students attending schools in central cities who performed at or above the *Proficient* level in Massachusetts from similar types of communities nationwide.

Grade 8 Scale Score and Achievement Level Results by Type of Community

- In 2002 in Massachusetts, the average scale score of students attending schools in central cities was lower than those of students in urban fringes/large towns and rural areas/small towns.
- The average scale scores of students attending schools in urban fringes/large towns and rural areas/small towns were higher in Massachusetts than in similar types of communities nationwide. The difference in average scale score of students attending schools in central cities in Massachusetts and similar communities nationwide was not found to be significant.
- In 2002, the percentage of students attending schools in central cities in Massachusetts who performed at or above the *Proficient* level was smaller than the corresponding percentages for students in urban fringes/large towns and rural areas/small towns.
- The respective percentages of students attending schools in urban fringes/large towns and rural areas/small towns who performed at or above the *Proficient* level were greater in Massachusetts than in similar types of communities nationwide. No significant difference was detected in the percentage of students attending schools in central cities who performed at or above the *Proficient* level in Massachusetts from similar types of communities nationwide.

TABLE 5A

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by type of community in which school is located, grade 4 public schools: 2002

		Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Central city							
2002	Massachusetts	29 (1.3)	217 (2.1)	38 (2.7)	62 (2.7)	26 (3.1)	5 (1.1)
	Nation	28 (0.4)	208 (0.6)	49 (0.7)	51 (0.7)	21 (0.7)	4 (0.3)
Urban fringe/Large town							
2002	Massachusetts	52 (1.5)	241 (1.3)	12 (1.2)	88 (1.2)	56 (1.9)	17 (1.7)
	Nation	42 (0.8)	221 (1.0)	33 (1.1)	67 (1.1)	34 (1.0)	8 (0.4)
Rural/Small town							
2002	Massachusetts	19 (1.3)	240 (1.6)	13 (1.9)	87 (1.9)	56 (3.4)	16 (2.2)
	Nation	30 (0.7)	219 (0.5)	34 (0.5)	66 (0.5)	31 (0.6)	6 (0.2)

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 4: *Basic*, 208–237; *Proficient*, 238–267; and *Advanced*, 268 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

TABLE 5B

The Nation's Report Card 2002 State Assessment

Average reading scale scores and percentage of students at or above each achievement level, by type of community in which school is located, grade 8 public schools: 2002

		Percentage of students	Average scale score	Below *Basic*	At or above *Basic*	At or above *Proficient*	At *Advanced*
Central city							
2002	Massachusetts	28 (1.6)	253 (2.4)	37 (2.4)	63 (2.4)	18 (2.6)	2 (****)
	Nation	27 (0.6)	254 (0.7)	36 (0.9)	64 (0.9)	23 (0.9)	2 (0.2)
Urban fringe/Large town							
2002	Massachusetts	51 (2.2)	276 (2.1)	13 (2.3)	87 (2.3)	46 (2.7)	4 (0.8)
	Nation	42 (0.7)	266 (0.8)	22 (0.8)	78 (0.8)	35 (1.0)	3 (0.4)
Rural/Small town							
2002	Massachusetts	21 (1.4)	281 (2.1)	8 (2.0)	92 (2.0)	52 (3.2)	4 (1.4)
	Nation	31 (0.6)	266 (0.6)	22 (0.6)	78 (0.6)	33 (0.7)	2 (0.4)

NOTE: The NAEP reading scale ranges from 0 to 500. The achievement levels correspond to the following points on the NAEP reading scale at grade 8: *Basic*, 243–280; *Proficient*, 281–322; and *Advanced*, 323 and above.
Percentages below and at or above *Basic* may not add to 100, due to rounding.
The standard errors of the statistics in the table appear in parentheses.
(****) Standard error estimates cannot be accurately determined.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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Toward a More Inclusive NAEP

NAEP endeavors to assess all students selected in the randomized sampling process, including students with disabilities (SD) as well as students who are classified by their schools as limited English proficient (LEP). The percentages of students classified as SD or LEP in all participating states and jurisdictions are available in an interactive database at the NAEP web site at http://nces.ed.gov/nationsreportcard/naepdata/. It is important to note that school personnel, guided by the student's Individualized Education Program (IEP), as well as eligibility for Section 504 services, make decisions regarding inclusion in the assessment of students with disabilities. They also make the decision regarding inclusion of LEP students, based on NAEP's guidelines. This includes evaluating the student's capability of participating in the assessment in English, as well as taking into consideration the number of years the student has been receiving instruction in English. Percentages of students excluded from NAEP may vary considerably across states (see table 7) and, within a state, across years. Comparisons of achievement results across states and within a state across years should be interpreted with caution if the exclusion rates vary widely.

The results displayed here and in *The Nation's Report Card: Reading 2002* are based on representative samples that include SD and LEP students who were assessed either with or without accommodations, as guided by NAEP's inclusion guidelines. In past NAEP state reading assessments, however, no testing accommodations or adaptations were made available to the special-needs students in the samples that served as the basis for reported results.

In the 1998 national and state assessments and the 2000 national (grade 4 only) assessments, NAEP drew a second representative national sample of schools. For students in this sample, accommodations were made available. The program has used this split-sample design to study the effects of allowing accommodations for special-needs students in the assessments. A series of technical research papers covering various NAEP subject areas has been published with the results of these comparisons (see "Publications on the inclusion of students with disabilities and limited English proficient students" on page 33).

It should be noted that accommodated special-needs students typically make up a small proportion of the total weighted number of students assessed—about 3 to 4 percent of the national total.

Table 6A displays the percentages of special-needs students identified, excluded, and accommodated at grade 4. Table 6B displays the percentages for grade 8.

Table 7 presents the total number of students assessed, the percentage of students sampled that were excluded, and average scale scores for all participating states and other jurisdictions at grades 4 and 8 in the NAEP 2002 Reading State Assessment.

TABLE 6A

The Nation's Report Card 2002 State Assessment

Percentage of SD and LEP students in reading assessments identified, excluded, and assessed, grade 4 public schools: 1992–2002

	SD and/or LEP		SD		LEP	
	Massachusetts	Nation	Massachusetts	Nation	Massachusetts	Nation
Accommodations not permitted						
1992 Identified	17 (1.0)	11 (0.5)	14 (0.9)	8 (0.4)	3 (0.8)	3 (0.4)
Excluded	7 (0.6)	6 (0.4)	6 (0.5)	5 (0.3)	2 (0.5)	2 (0.2)
Assessed under standard conditions	10 (0.8)	4 (0.5)	8 (0.7)	3 (0.4)	1 (0.5)	1 (0.3)
1994 Identified	18 (1.1)	14 (0.9)	14 (0.9)	11 (0.7)	4 (0.8)	4 (0.7)
Excluded	8 (0.9)	6 (0.4)	5 (0.6)	5 (0.4)	3 (0.6)	2 (0.2)
Assessed under standard conditions	10 (0.9)	8 (0.8)	9 (0.8)	6 (0.6)	1 (0.3)	2 (0.6)
1998 Identified	19 (1.0)	17 (1.1)	16 (0.7)	12 (0.8)	4 (0.7)	6 (0.9)
Excluded	8 (1.0)	10 (1.0)	7 (0.8)	7 (0.6)	2 (0.6)	4 (0.8)
Assessed under standard conditions	11 (1.1)	7 (0.6)	9 (0.8)	5 (0.5)	2 (0.6)	2 (0.3)
Accommodations permitted						
1998 Identified	19 (1.0)	18 (1.0)	16 (0.7)	11 (0.7)	4 (0.7)	7 (0.9)
Excluded	5 (1.0)	7 (0.7)	4 (0.8)	5 (0.6)	2 (0.5)	3 (0.4)
Assessed under standard conditions	9 (1.4)	7 (0.6)	7 (1.2)	4 (0.5)	2 (0.6)	4 (0.5)
Assessed with accommodations	5 (1.1)	3 (0.6)	5 (1.0)	3 (0.4)	1 (0.4)	1 (0.3)
2002 Identified	19 (0.9)	21 (0.4)	16 (0.8)	13 (0.2)	4 (0.7)	9 (0.5)
Excluded	6 (0.6)	7 (0.2)	4 (0.5)	5 (0.1)	2 (0.5)	2 (0.1)
Assessed under standard conditions	4 (0.6)	10 (0.4)	3 (0.4)	4 (0.1)	1 (0.4)	6 (0.4)
Assessed with accommodations	9 (0.6)	4 (0.1)	9 (0.6)	4 (0.1)	1 (0.2)	1 (0.1)

SD: Students with Disabilities. LEP: Limited English Proficient students.

NOTE: Some students were identified as both SD and LEP. Such students would be included in both the SD and LEP portions of the table.
The percentages excluded and assessed may not sum to the exact percentage identified, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, and 2002 Reading Assessments.

TABLE 6B

The Nation's Report Card 2002 State Assessment

Percentage of SD and LEP students in reading assessments identified, excluded, and assessed, grade 8 public schools: 1998 and 2002

	SD and/or LEP		SD		LEP	
	Massachusetts	Nation	Massachusetts	Nation	Massachusetts	Nation
Accommodations not permitted						
1998 Identified	17 (1.1)	14 (1.0)	15 (1.0)	11 (0.8)	2 (0.5)	3 (0.5)
Excluded	7 (1.2)	6 (0.6)	5 (1.0)	6 (0.6)	2 (0.5)	1 (0.1)
Assessed under standard conditions	10 (1.1)	7 (0.8)	10 (0.9)	5 (0.5)	1 (0.5)	2 (0.4)
Accommodations permitted						
1998 Identified	17 (1.1)	14 (1.0)	15 (1.2)	11 (0.9)	3 (0.7)	3 (0.4)
Excluded	4 (0.7)	4 (0.4)	3 (0.6)	3 (0.4)	2 (0.6)	1 (0.2)
Assessed under standard conditions	8 (1.0)	7 (0.7)	7 (1.0)	5 (0.6)	1 (0.3)	2 (0.3)
Assessed with accommodations	5 (1.0)	3 (0.4)	5 (1.0)	2 (0.4)	0 (0.2)	0 (0.1)
2002 Identified	20 (1.1)	18 (0.3)	17 (0.9)	13 (0.2)	5 (0.7)	6 (0.3)
Excluded	6 (0.8)	6 (0.3)	4 (0.6)	5 (0.2)	3 (0.5)	2 (0.2)
Assessed under standard conditions	6 (0.8)	8 (0.2)	5 (0.7)	5 (0.1)	1 (0.3)	4 (0.2)
Assessed with accommodations	8 (0.9)	4 (0.2)	8 (0.8)	4 (0.2)	1 (0.3)	1 (0.1)

SD: Students with Disabilities. LEP: Limited English Proficient students.

NOTE: Some students were identified as both SD and LEP. Such students would be included in both the SD and LEP portions of the table.
The percentages excluded and assessed may not sum to the exact percentage identified, due to rounding.
The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Reading Assessments.

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TABLE 7

The Nation's Report Card 2002 State Assessment

Total number of students assessed, percentage of students sampled that were excluded, and average reading scale scores, grade 4 and 8 public schools: By state, 2002

	Grade 4 students			Grade 8 students		
	Number assessed	Percentage excluded	Average scale score	Number assessed	Percentage excluded	Average scale score
Alabama	3684	3 (0.4)	207 (1.4)	2602	2 (0.5)	253 (1.3)
Arizona	3105	8 (0.8)	205 (1.5)	2451	5 (0.6)	257 (1.3)
Arkansas	2779	5 (0.5)	213 (1.4)	2454	5 (0.9)	260 (1.1)
California‡	4016	5 (0.7)	206 (2.5)	3124	4 (0.5)	250 (1.8)
Connecticut	3266	5 (0.6)	229 (1.1)	2682	4 (0.6)	267 (1.2)
Delaware	3895	8 (0.4)	224 (0.6)	3850	6 (0.3)	267 (0.5)
Florida	3226	7 (0.8)	214 (1.4)	2633	6 (0.9)	261 (1.6)
Georgia	4919	4 (0.4)	215 (1.0)	3756	4 (0.4)	258 (1.0)
Hawaii	3603	6 (0.4)	208 (0.9)	2656	5 (0.4)	252 (0.9)
Idaho	2710	4 (0.7)	220 (1.1)	2390	4 (0.5)	266 (1.1)
Indiana	3469	5 (0.5)	222 (1.4)	2535	4 (0.5)	265 (1.3)
Iowa‡	1930	8 (0.8)	223 (1.1)	—	— (—)	— (—)
Kansas‡	1938	5 (0.6)	222 (1.4)	1827	5 (0.9)	269 (1.3)
Kentucky	3262	8 (0.6)	219 (1.1)	2461	7 (0.6)	265 (1.0)
Louisiana	3116	10 (1.0)	207 (1.7)	2252	10 (0.8)	256 (1.5)
Maine	1964	6 (0.9)	225 (1.1)	2522	4 (0.5)	270 (0.9)
Maryland	2844	7 (0.8)	217 (1.5)	2451	4 (0.7)	263 (1.7)
Massachusetts	3236	6 (0.6)	234 (1.1)	2576	6 (0.8)	271 (1.3)
Michigan	2974	7 (0.6)	219 (1.1)	2383	7 (0.7)	265 (1.6)
Minnesota‡	2598	5 (0.8)	225 (1.1)	—	— (—)	— (—)
Mississippi	3091	4 (0.4)	203 (1.3)	2415	5 (0.5)	255 (0.9)
Missouri	2973	9 (0.8)	220 (1.3)	2481	8 (0.7)	268 (1.0)
Montana‡	1342	6 (1.1)	224 (1.8)	1849	4 (0.5)	270 (1.0)
Nebraska	1540	5 (0.9)	222 (1.5)	2139	7 (0.8)	270 (0.9)
Nevada	3447	10 (1.0)	209 (1.2)	2536	6 (0.4)	251 (0.8)
New Mexico	2316	10 (1.1)	208 (1.6)	2265	8 (0.9)	254 (1.0)
New York‡	2401	8 (0.9)	222 (1.5)	1867	9 (1.4)	264 (1.5)
North Carolina	3276	12 (0.9)	222 (1.0)	2540	9 (0.7)	265 (1.1)
North Dakota‡	2422	5 (0.7)	224 (1.0)	1949	4 (0.5)	268 (0.8)
Ohio	2722	8 (0.8)	222 (1.3)	2319	7 (0.8)	268 (1.6)
Oklahoma	3352	5 (0.7)	213 (1.2)	2493	4 (0.5)	262 (0.8)
Oregon‡	2675	8 (0.8)	220 (1.4)	1918	5 (0.7)	268 (1.3)
Pennsylvania	3383	5 (0.6)	221 (1.2)	2720	3 (0.4)	265 (1.0)
Rhode Island	3551	6 (0.6)	220 (1.2)	2552	5 (0.4)	262 (0.8)
South Carolina	2473	5 (0.6)	214 (1.3)	2189	5 (0.5)	258 (1.1)
Tennessee‡	3022	3 (0.6)	214 (1.2)	2047	3 (0.7)	260 (1.4)
Texas	3637	11 (1.1)	217 (1.7)	3258	8 (0.9)	262 (1.4)
Utah	3652	6 (0.7)	222 (1.0)	2683	4 (0.4)	263 (1.1)
Vermont	1690	5 (0.6)	227 (1.1)	2378	5 (0.6)	272 (0.9)
Virginia	3029	10 (0.8)	225 (1.3)	2546	8 (0.7)	269 (1.0)
Washington‡	2444	5 (0.4)	224 (1.2)	1897	4 (0.8)	268 (1.2)
West Virginia	2348	10 (0.8)	219 (1.2)	2166	10 (0.8)	264 (1.0)
Wyoming	2786	3 (0.3)	221 (1.0)	2579	3 (0.3)	265 (0.7)
American Samoa	—	— (—)	— (—)	460	8 (1.0)	198 (1.7)
Distnct of Columbia	2554	8 (0.4)	191 (0.9)	1638	7 (0.6)	240 (0.9)
DDESS	1351	4 (0.5)	225 (0.7)	701	3 (0.6)	272 (1.0)
DoDDS	2924	3 (0.3)	224 (0.5)	2090	2 (0.3)	273 (0.6)
Guam	1216	7 (0.5)	185 (1.3)	1011	2 (0.4)	240 (1.2)
Virgin Islands	738	3 (0.4)	179 (1.9)	567	8 (0.6)	241 (1.3)

— Iowa did not participate at grade 8. American Samoa did not participate at grade 4. Minnesota did not meet minimum participation guidelines to report results at grade 8.

‡ Indicates that the jurisdiction did not meet one or more of the guidelines for school participation in 2002. Oregon met the guidelines at grade 4, but not grade 8.

NOTE: The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics in the table appear in parentheses.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002 Reading Assessment.

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Where to Find More Information

The NAEP Reading Assessment

The latest news about the NAEP 2002 reading assessment and the national results can be found on the NAEP web site at http://nces.ed.gov/nationsreportcard/reading/results/. The individual reports for each participating state and other jurisdictions are also available in the state results section of the web site at http://nces.ed.gov/nationsreportcard/states/. *The Reading Framework for the 2003 National Assessment of Educational Progress*, on which this assessment is based, is available at the Internet address http://www.nagb.org/pubs/read_fw_03.pdf.

Additional Results from the Reading Assessment

For more findings from the 2002 reading assessments, refer to the NAEP 2002 results at http://nces.ed.gov/nationsreportcard/naepdata/. The interactive database at this site includes student and school variables for all participating states and other jurisdictions, the nation, and the four NAEP geographic regions. Data tables are also available for each jurisdiction, with all background questions cross-tabulated with the major demographic variables.

Technical Documentation

For explanations of NAEP survey procedures see Allen, N. L., Donoghue, J. R., and Schoeps, T. L. (2001). *The NAEP 1998 Technical Report* (NCES 2001–509). Washington, DC: U.S. Department of Education, Office of Educational Research and Improvement, National Center for Education Statistics.

Publications on the inclusion of students with disabilities and limited English proficient students

Olson, J. F., and Goldstein, A. A. (1997). *The Inclusion of Students with Disabilities and Limited English Proficient Students in Large-Scale Assessments: A Summary of Recent Progress* (NCES 97–482). Washington, DC: U.S. Department of Education, Office of Educational Research and Improvement, National Center for Education Statistics.

Mazzeo, J., Carlson, J. E., Voelkl, K. E., and Lutkus, A. D. (2000). *Increasing the Participation of Special-Needs Students in NAEP: A Report on 1998 Research Activities* (NCES 2000–473). Washington, DC: U.S. Department of Education, Office of Educational Research and Improvement, National Center for Education Statistics.

Lutkus, A. D., and Mazzeo, J. (2003). *Including Special-Needs Students in the NAEP 1998 Reading Assessment, Part I: Comparison of Overall Results With and Without Accommodations* (NCES 2003–467). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics.

Lutkus, A. D. (forthcoming). *Including Special-Needs Students in the NAEP 1998 Reading Assessment, Part II: Results for Students with Disabilities and Limited English Proficient Students* (NCES 2003–468). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics.

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The *2002 Reading State Reports* in this series were prepared by Laura Jerry and Anthony Lutkus of Educational Testing Service.

What is The Nation's Report Card?

THE NATION'S REPORT CARD, the National Assessment of Educational Progress (NAEP), is the only nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since 1969, assessments have been conducted periodically in reading, mathematics, science, writing, history, geography, and other fields. By making objective information on student performance available to policymakers at the national, state, and local levels, NAEP is an integral part of our nation's evaluation of the condition and progress of education. Only information related to academic achievement is collected under this program. NAEP guarantees the privacy of individual students and their families.

NAEP is a congressionally mandated project of the National Center for Education Statistics, the U.S. Department of Education. The Commissioner of Education Statistics is responsible, by law, for carrying out the NAEP project through competitive awards to qualified organizations. NAEP reports directly to the Commissioner, who is also responsible for providing continuing reviews, including validation studies and solicitation of public comment, on NAEP's conduct and usefulness.

In 1988, Congress established the National Assessment Governing Board (NAGB) to formulate policy guidelines for NAEP. The Board is responsible for selecting the subject areas to be assessed from among those included in the National Education Goals; for setting appropriate student performance levels; for developing assessment objectives and test specifications through a national consensus approach; for designing the assessment methodology; for developing guidelines for reporting and disseminating NAEP results; for developing standards and procedures for interstate, regional, and national comparisons; for determining the appropriateness of test items and ensuring they are free from bias; and for taking actions to improve the form and use of the National Assessment.

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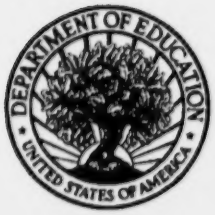
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